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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,932	09/29/2003	Teck Hu	17	1634
	7590 04/23/2007 strator (Room 3J-219)		EXAMINER	
Lucent Technol	logies Inc.		NGUYEN, KHAI MINH	
101 Crawfords Holmdel, NJ 07	• • • • • • • • • • • • • • • • • • • •		ART UNIT PAPER NUMBER	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	04/23/2007	PAP	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/673,932	HU, TECK			
		Examiner	Art Unit			
		Khai M. Nguyen	2617			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet w	vith the correspondence add	Iress		
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a viil apply and will expire SIX (6) MO , cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this cor ABANDONED (35 U.S.C. § 133).			
Status						
2a)⊠	Responsive to communication(s) filed on <u>15 Fe</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal ma	•	merits is		
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□	Claim(s) 1-3,6-16 and 18-24 is/are pending in the day of the above claim(s) is/are withdraw Claim(s) 7-13 is/are allowed. Claim(s) 1-3,6,14-16,and 18-24 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access access access and access access access access and access	epted or b) objected to drawing(s) be held in abeyation is required if the drawing	ince. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFI	·		
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Information	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 2/15/2007 have been fully considered but they are not persuasive.

Regarding claims 1-3, 6-16, and 18-24, Applicant argues, on pages 7-9 of the remarks, that Koulakiotis and ETSI do not disclose, teaches or suggests "assigning at least one service rate to at least one of a plurality of subscription-based service types in response to at least one of the determined geographical distribution and the determined subscription distribution, and determined geographical distribution of a number of multicast service subscribers and a determined subscription distribution of the number of multicast service subscribers within the cell."

The Examiner respectfully disagrees with Applicant's argument because

Koulakiotis and ETSI clearly discloses assigning at least one service rate to at least one of a plurality of subscription-based service types in response to at least one of the determined geographical distribution and the determined subscription distribution (see ETSI, fig.2, section 4.2, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising (the Multimedia Broadcast/Multicast Service (MBMS) will provide this capability for such broadcast/multicast services provided by the home environment (cell or sector)), and determined geographical distribution of a number of multicast service subscribers (see ETSI, fig.2, pages 7-8, section 4.2, and section 4.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising

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(the Multimedia Broadcast/Multicast Service (MBMS) will provide this capability for such broadcast/multicast services provided by the home environment (cell or sector)) and a determined subscription distribution of the number of multicast service subscribers within the cell (see ETSI, home environment (cell or sector)) (see ETSI, fig.2, section 4.2, section 4.2.1, and section 5.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising (The multicast mode allows the unidirectional point-to-multipoint transmission of multimedia data (e.g. text, audio. picture, video) from a single source point to a multicast group in a multicast area. The multicast mode is intended to efficiently use radio/network resources e.g. data is transmitted over a common radio channel. Data is transmitted to multicast areas as defined by the network (Home environment or cell or sector). In the multicast mode there is the possibility for the network to selectively transmit to cells within the multicast area which contain members of a multicast group).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that 2. form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 15 are rejected under 35 U.S.C. 102(a) as being anticipated by ETSI TS 122 146 V.5.2.0 (2002-2003).

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Regarding claim 1, ETSI teaches a method of wireless communication with a number of subscribers to a subscription-based service (fig.2, pages 7-8, section 4.2), the method comprising:

determining the number of multicast service subscribers within a cell (home environment) (fig.2, section 4.2, section 4.2.1, and section 5.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising);

determining at least one of a geographical distribution of a number of multicast service subscribers (fig.2, section 4.2, section 4.2.1, and section 5.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising) and a subscription distribution of the number of multicast service subscribers within the cell (home environment) (fig.2, pages 7-8, section 4.2, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising); and

assigning at least one service rate to at least one of a plurality of subscription-based service types (fig.2, section 4.2, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising) in response to at least one of channel conditions (pages 8-9, section 4.2.1, section 4.3), power requirements, service subscription type, desired content, other services and equipment class of each subscriber (pages 9-10, section 5.1.1-5.1.2).

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Regarding claim 15, ETSI teaches a method of wireless communication comprising:

receiving a subscription-based service at an assigned service rate (section 5.1.2), the assigned service rate corresponding with at least one of plurality of service subscription types and at least one of desired content (fig.2, section 4.2, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising), channel conditions, power requirements, other services and equipment class (pages 8-9, section 4.2.1, section 4.3), and further corresponding to at least one of a determined geographical distribution of a number of multicast service subscribers (fig.2, pages 7-8, section 4.2, and section 4.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising) and a determined subscription distribution of the number of multicast service subscribers within the cell (fig.2, section 4.2, section 4.2.1, and section 5.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 2-3, 6, 14,16, and 18-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over ETSI TS 122 146 V.5.2.0 (2002-2003) in view of Koulakiotis et al. (U.S.Pub-20030104801).

Regarding claim 2, ETSI teaches the method of claim 1, wherein the subscription-based service comprises at least a multicast service (fig.2, section 4.2, section 4.2.1, and section 5.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising),

ETSI fails to specifically discloses the at least one service rate comprises at least one multicast rate, and said at least one of the subscription-based service type comprises at least a multicast service subscription type. However, Koulakiotis teaches the at least one service rate comprises at least one multicast rate (paragraph 0008, 0015-0016), and at least one of the subscription-based service type comprises at least a multicast service subscription type (paragraph 0006, 0068). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Koulakiotis to ETSI to providing a service to a user comprising the steps of defining an area in which the service is available.

Regarding claim 3, Koulakiotis and ETSI further teach the method of claim 2, wherein the multicast service subscription type comprises at least one of a basic type and a premium type (see Koulakiotis, paragraph 0006, see ETSI, fig.2, pages 7-8, section 4.2, and section 4.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising).

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Regarding claim 6, Koulakiotis and ETSI further teach the method of claim 2, comprising: multicasting information to each of the multicast service subscribers at each multicast service subscription type's assigned multicast rate (see Koulakiotis, paragraph 0006, 0068, see ETSI, fig.2, pages 7-8, section 4.2, and section 4.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising).

Regarding claim 14, Koulakiotis and ETSI further teach the method of claim 2, wherein the other services comprises at least one of voice, HSDPA and HSUPA (see ETSI, fig.2, pages 7-8, section 4.2, and section 4.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising).

Regarding claim 16, ETSI teaches the method of claim 15,

ETSI fails to specifically discloses the subscription-based service comprises at least a multicast service, the at least one service rate comprises at least one multicast rate, and the service subscription type comprises at least a multicast service subscription type. However, Koulakiotis teaches the subscription-based service comprises at least a multicast service (paragraph 0006), the at least one service rate comprises at least one multicast rate (paragraph 0008, 0015-0016), and the service subscription type comprises at least a multicast service subscription type (paragraph 0006, 0068). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Koulakiotis to ETSI to

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providing a service to a user comprising the steps of defining an area in which the service is available.

Regarding claim 18, Koulakiotis and ETSI further teach the method of claim 16, wherein the multicast service subscription type comprises at least one of a basic type and a premium type (see Koulakiotis, paragraph 0006).

Regarding claim 19, Koulakiotis and ETSI further teach the method of claim 16, comprising: prioritizing the other services and the multicast service subscription service (see Koulakiotis, fig.3, paragraph 0007, 0029-0030).

Regarding claim 20, Koulakiotis and ETSI further teach the method of claim 19, comprising: scaling the multicast service subscription types available for assigning in response to a change in demand for the other services (see Koulakiotis, paragraph 0006, 0068).

Regarding claim 21, Koulakiotis and ETSI further teach the method of claim 20, wherein the step of scaling comprises at least one of dropping and adding support for at least one of the multicast service subscription types (see Koulakiotis, paragraph 0030-0032).

Regarding claim 22, Koulakiotis and ETSI further teach the method of claim 21, wherein the demand corresponds with at least one of power, channelization codes, and subscription fees (see ETSI, fig.2, pages 7-8, section 4.2, and section 4.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising).

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Regarding claim 23, Koulakiotis and ETSI further teach the method of claim 19, wherein the other services comprises at least one of voice, HSDPA and HSUPA (see ETSI, fig.2, pages 7-8, section 4.2, and section 4.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising).

Regarding claim 24, Koulakiotis and ETSI further teach the method of claim 16, wherein the equipment class corresponds with at least one supporting channelization code (see ETSI, fig.2, pages 7-8, section 4.2, and section 4.2.1, multimedia service, operator specific services, movie/music streaming, live web casting, TV news/sports/advertising).

Allowable Subject Matter

4. Claims 7-13 are allowed.

Applicant's independent claim 7: The present in invention is directed to a method of wireless communication with a number of subscribers to a subscription-based service, the independent claim identifies the patentably distinct feature "prioritizing the assigning of the at least one multicast rate to support the multicasting information to at least one of a maximum number of multicast service subscribers, a maximum number of multicast service subscribers having the premium service type, and a maximum number of multicast service subscribers having the basic service type; and multicasting information to each of the multicast service subscribers at each multicast service subscription type's assigned multicast rate". Applicant's independent claim 7 comprises a particular combination of elements, which is neither taught nor-suggested by prior art.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571.272.7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph feild can be reached on 571.272.4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Khai Nguyen

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4/14/2007

SUPERVISORY PATENT EXAMINER